

PISTOLA LVLP TORNADO

ENGLISH

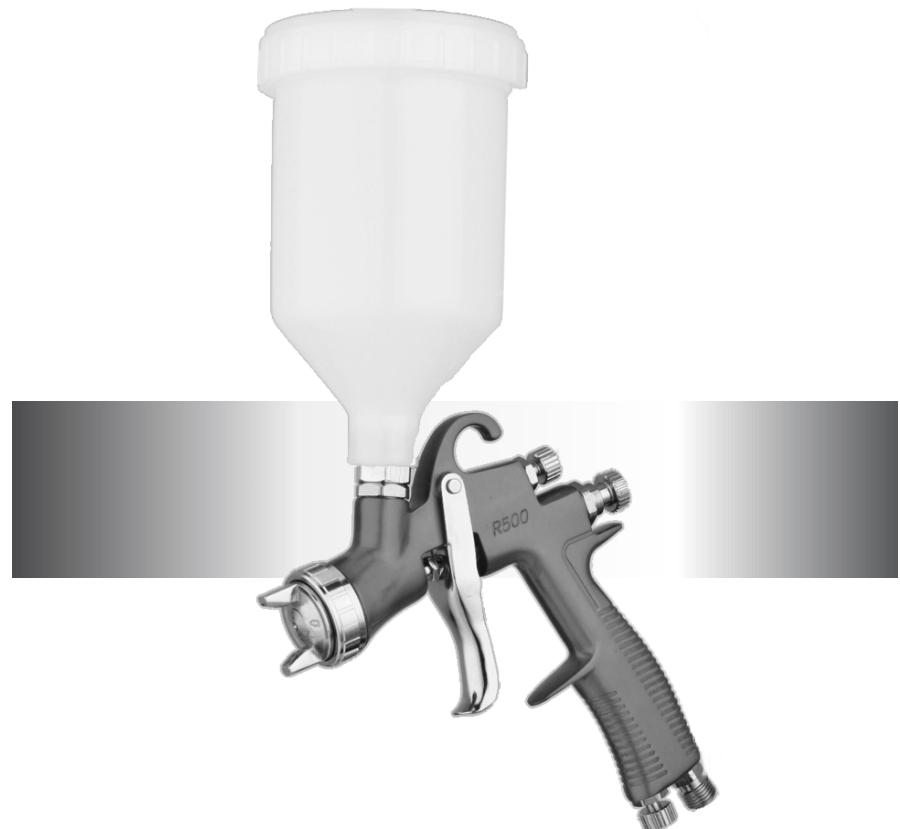
# **SPRAYIT SP33000**



**SPRAYIT**

ESPAÑOL

**SPRAYIT**



**SPRAYIT SP33000**

**GRAVITY FEED  
LVLP SPRAY GUN**

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## SAFETY RULES

**IMPORTANT!** Before you begin to use this equipment it's necessary to read this manual completely to be able to operate under the best conditions and thus for being able to obtain the maximum of yield. In this manual, instructions are included to operate and to give maintenance as well includes instructions of security.

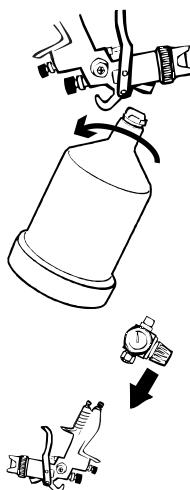
Is prohibited the use of this equipment to minors and people nonenabled for its use. Don't try to use this equipment in applications for which it was not designed. Operating it under these conditions can damage the equipment permanently or cause damages or injuries.

Use always accessories in good state and with the characteristics the equipment has, if some accessory presents or displays malfunctions in its operation immediately replace it. Teflon or sealant are always recommended in connections between two elements to avoid air leaks. Do not connect too long of a hose, no longer than 15 ft. is recommended.

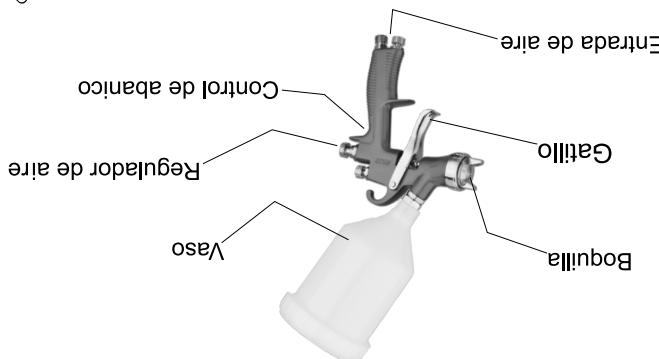
**Gas accumulation can cause some type of explosion, work in open and ventilated areas. The use of a mask is recommended to avoid the excessive inhalation of pulverized products.**

## REGLAS DE SEGURIDAD

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También necesitamos sujetar el vaso en su posición. Una vez que se coloque el vaso en el conector adecuado de la pistola.



Este tipo de pistola está fabricada bajo estándares internacionales de calidad. Cuenta con tres controles: aire, material y abanico. Aunque el control de aire es un regulador extremo que hay que colocar a la entrada de aire de la pistola. Sus principales partes son:

## ENSAMBLE

Nunca操re el equipo si se encuentra bajo los efectos del alcohol o de alguna droga. Si tiene mareas de agotamiento suspenda el uso, puede provocar un accidente.

Para realizar cualquier tipo de trabajo de mantenimiento es necesario desconectar el equipo de la línea neumática. Si por alguna razón se requiere remplazar alguna pieza de la pistola recomienda que la sustituya por una original nunca utilice piezas similares o de propia fabricación.



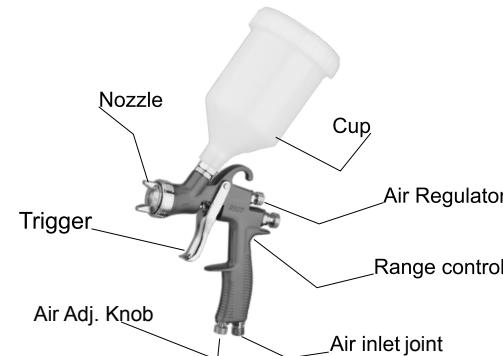
To perform any maintenance work it is necessary to disconnect the pneumatic line. If for any reason it is required to replace any pieces of gun we suggest you replace it with an original, never use similar parts or other manufacture.



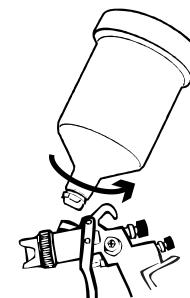
Never operate equipment if you are under the influence of alcohol or any drug. If you show exhaustion suspend the use, it can cause an accident.

## ASSEMBLY

This type of gun is fabricated under international standards of quality.



The connections are of 1/4", use hoses of the same size. The regulator that accompanies the gun needs to connect to air inlet of the gun.



First put the cup in its position.

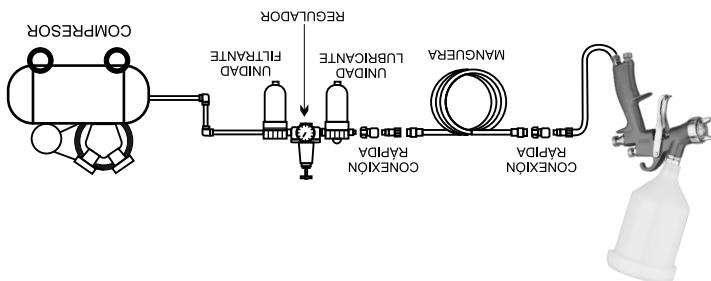
seguindo sale aire y el material. pistolas tiene dos pasos; en el primero se permite la salida de aire y en el accion el gatillo para que el material salga pulverizado, este tipo de

aire. siempre llenar el vaso cuando la pistola se encuentra desconectada de la linea de aire. Con el vaso lleno de material, conecte la pistola a la linea de para hacer funcionar la pistola, coloque el material en el vaso, procure siempre llenar el vaso cuando la pistola se encuentra desconectada de la linea de aire.

## OPERACION

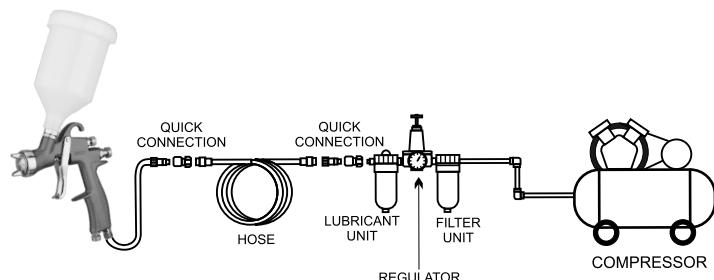
Entrada de aire	0.06" (1.5 mm.)
Rango de presion	2.0-3.5 bar (28.8-51psi)
Presion maxima de aire	120.5psi (8.3 bar)
Capacidad del vaso	600cc
Consumo de aire	3.5-3.9cfm (84.1-109 l/min)
Tamaño de abanico	7.0"-10.9" (180-280 mm.)
Peso	0.77 lbs (0.35 kgs)

## CARACTERISTICAS TECNICAS



que se manche el trabajo. antes de empezar a trabajar con la pistola HVL, asegurese de contar con aire limpio de humedad y de particuladas de aceite esto con el fin de evitar

Before you start to work with the spray gun, be sure to have clean air and moisture particles of oil in order to prevent it from a stained work.



Air inlet	1/4" (6.35 mm.)
Nozzle size	0.06" (1.5 mm.)
Air pressure range	2.0-3.5 bar (28.8-51psi)
Max. pressure of air	8.3 bar (120.5psi)
Cup capacity	600cc
Consumption	84.1-109 l/min (3.5-3.9cfm)
Pattern Width	180-280 mm. (7.0"-10.9")
Weight	0.35 kgs (0.77 lbs)

## OPERATION

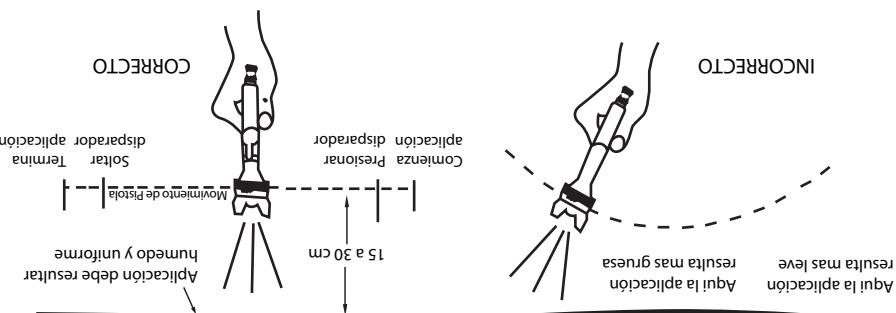
1. After unpacking the product, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service.
2. Thoroughly mix and thin paint in accordance with the paint manufacturer's instructions. Most materials will spray readily if thinned properly.
3. Strain material through filter, cheese cloth or a paint strainer.
4. Fill the canister about  $\frac{1}{4}$  full and start the air compressor.

**WARNING** DO NOT EXCEED Maximum Pressure of Spray Gun or any other parts in the compressor system.

5. After Connect the gun to air supply, please make sure that the fluid cap, container and air hose have been connected tightly with spray gun.
6. Set up a piece of cardboard or other scrap material to use as a target and adjust for best spray pattern.

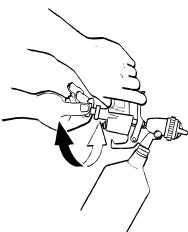
**WARNING** Never aim or spray at yourself or anybody else which would cause serious injury.

7. Test the consistency of the material by making a few strokes on a cardboard target. If material still appears too thick, add a small amount of thinner. **THIN WITH CARE!** Do not exceed paint manufacturer's thinning recommendations.



Para lograr una correcta aplicación se debe mover la pistola de lado a lado teniendo presente que se haga en forma paralela a la superficie de aplicación. Como se ilustra en la siguiente figura.

Este tipo de pistola tiene la característica de que podemos combinar la boquilla, tobera y aguja, esto con la finalidad de poder obtener un patrón uniforme con diferentes tipos de densidades de materiales. Cuando los materiales son más viscosos se recomienda utilizar juntas de materiales con una mayor abertura. Por el contrario si utilizamos viscosidades bajas con un juego de reacciones de una abertura pediremos obtener el efecto deseado.



**Ajuste de la cantidad de material.** Gire el tornillo ubicado en la parte posterior hasta obtener la cantidad de pintura adecuada.



**Ajuste de anclura de abanico.** Gire el control del abanico para ajustar el rango de anclura de rociado ser al lado. El patrón de rociado puede ser al lado, de rociado de anclura de rociado.

**Ajuste del volumen de aire.** Utilice el tornillo del manómetro para ajustar la presión de aire con que alimentamos la pistola

Para conseguir una buena pulverización del material necesitamos equilibrar la cantidad de aire y la cantidad de material. Para lo que nos ayudamos de los controles de material, aire y abanico.

#### Ajuste

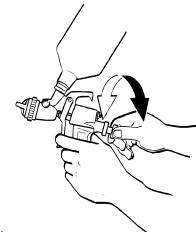
## Adjustment

The desired pattern, volume of fluid output and fine atomization can easily be obtained by regulating the Pattern Adjusting Knob, Fluid (Paint) Adjusting Knob and Air Adjusting Knob.

**AIR Volume ADJUSTMENT:** Turning the Air Adjusting valve clockwise will decrease the air volume. And counter-clockwise will increase the air volume.



**PATTERN ADJUSTMENT:** Turning Pattern Adjusting Knob to the right until tight will make spray pattern round, or turning left make spray pattern ellipse.



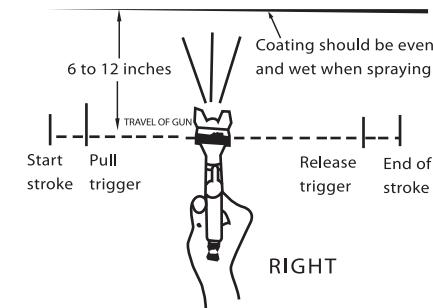
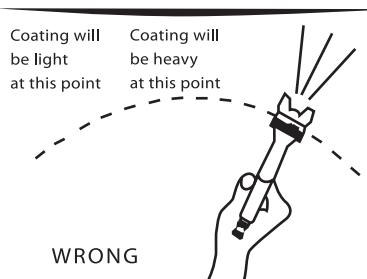
**Fluid (Paint) ADJUSTMENT:** Turn the Paint Adjusting Knob clockwise will decrease the volume of fluid output and counter-clockwise will increase fluid output.

## Operation

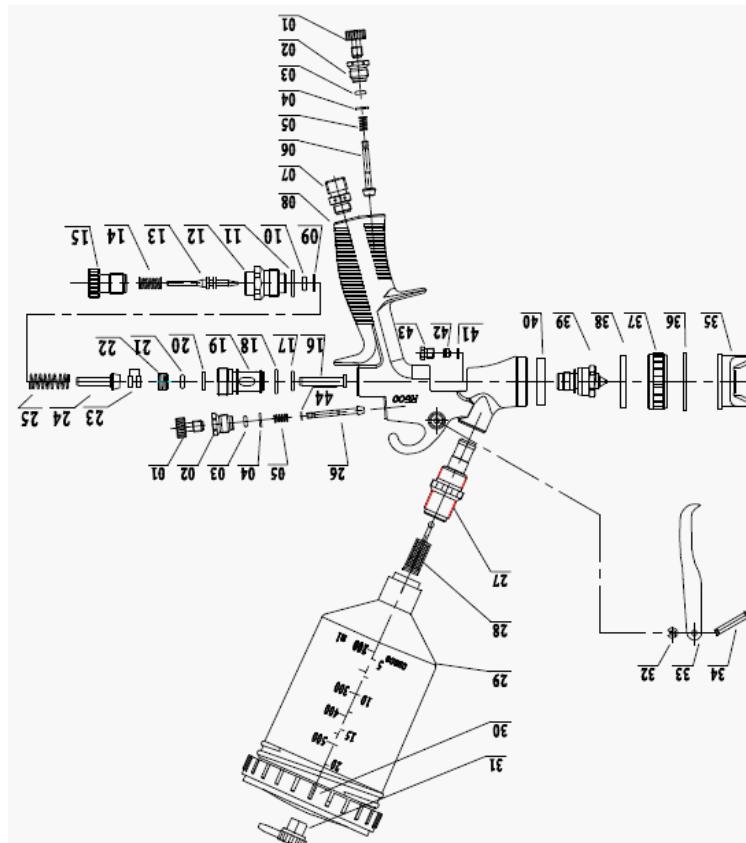
1. Begin spraying. Always keep the gun at right angles to the work .
2. Keep the nozzle about 6 to 12 inches from the work surface. Grip the gun keeping perpendicular with spraying area then move it parallel for several times. Stopping gun movement in mid-stroke will cause a build up of paint and result in runs. Do not fan the gun from side to side while painting. This will cause a build-up of paint in the center of the stroke and an insufficient coating at each end.
3. Trigger gun properly. Start the gun moving at the beginning of the stroke BEFORE SQUEEZING THE TRIGGER and release the trigger BEFORE STOPPING GUN MOVEMENT at the end of the stroke. This procedure will blend each stroke with the next without showing overlap or unevenness.
4. The amount of paint being applied can be varied by the speed of the stroke, distance from the surface and adjustment of the fluid control knob.
5. Overlap strokes just enough to obtain an even coat.

**NOTE: Two thin coats of paint will yield better results and have less chance of runs than one heavy layer.**

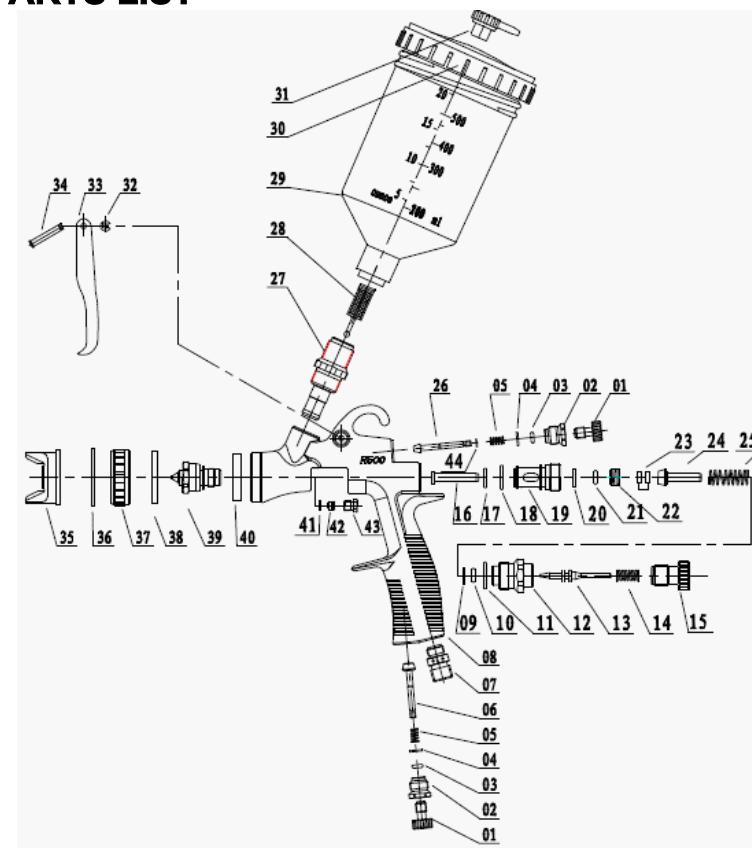
6. Use a piece of cardboard as a shield to catch overspray at the edges of the work to protect other surfaces.



NO.	DESCRIPCION	NO.	DESCRIPCION	NO.	DESCRIPCION
1	Tornillo Control de Aire	16	Intercambiador	31	Respirador
2	Pellizco Control de Aire	17	Aro Sellado (8.5*1.2)	32	Segurado
3	Aro Sellado	18	Aro Sellado (10.7*1.8)	33	Gatillo
4	Arandela	19	Aguja	34	Perno del Gatillo
5	Resorte de la Válvula de Aire	20	Cubierta de Arandela	35	Bodilla
6	Válvula de la Válvula de Aire	21	Aro Sellado (4.5*1.2)	36	Empaquetaje
7	Conector Entrada de Aire	22	Tornillo de Ajuste	37	Anillo de Aluminio
8	Cubrejo de la Pistola	23	Roundera de Espuma	38	Empaquetaje
9	Arandela Plana	24	Válvula Entrada de Aire	39	Tobera
10	Aro Sellado (4.5*1.8)	25	Resorte	40	Empaquetaje
11	Aro Sellado (8.7*1.85)	26	Aguja para Control de Abanico	41	Junta de Espuma para Aguja
12	Pellizco para ajuste del fluido	27	Conector para el Vaso	42	Empaquetaje
13	Aguja Ajustador de Líquidos	28	Filtro	43	Tornillo de Ajuste
14	Resorte para Aguja	29	Vaso de 600 ml.	44	Segurado
15	Tornillo Ajustador de Líquidos	30	Cubierta para Vaso		



## PARTS LIST



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Air Adj. Screw	16	Switch Pole	31	Ventilator Head
2	Air Adj. Knob	17	O-ring (8.5*1.2)	32	Snap Retainer
3	O-ring 3.3 x 1.5	18	O-ring (10.7*1.8)	33	Trigger
4	Flat Washer	19	Needle Housing	34	Trigger Lever
5	Air Valve Spring	20	Cover Washer	35	Atomization
6	Air Valve Step	21	O-ring (4.5*1.2)	36	Fluid Washer
7	Air Inlet Joint	22	Needle Housing Screw	37	Round Nut
8	Gun Body	23	Foam Washer	38	Washer
9	Flat Washer	24	Air Inlet Valve Pole	39	Nozzle
10	O-ring (4.5*1.8)	25	Switch Spring	40	Inner Circle
11	O-ring (8.7*1.85)	26	Atomization Needle	41	Nozzle Foam Washer
12	Fluid Adj. Knob	27	Paint Inlet Joint	42	Seal Washer
13	Fluid Adj. Needle	28	Filter	43	Direction Screw
14	Fluid Needle Spring	29	Container	44	Snap Retainer
15	Fluid Adj. Screw	30	Container Cover		

PROBLEMA	CAUSA	SOLUCIÓN
1. Limpiar la pistola y el vaso: ponga un poco de solvente en el vaso y accione el gatillo para que se limpie por dentro. Haga lo varias veces.	B. Limpiar la pistola y el vaso: ponga un poco de solvente en el vaso y accione el gatillo para que se limpie por dentro. Haga lo varias veces.	A. Limpiar la pistola y el vaso: ponga un poco de solvente en el vaso y limpieza de la pistola.
2. Los empaches deben ser ligeramente lubricados después de la limpieza de la pistola.	C. Los empaches deben ser ligeramente lubricados después de la limpieza de la pistola.	
1. Objeto o sustancias extrañas entre la boquilla y la aguja que sevitan que se lle.	1. La pistola gotea por la boquilla	1. Limpiar la boquilla y la aguja en solvente o utilice una nueva boquilla.
2. Cambio del sellito de la aguja o por el sellito de la aguja.	2. Sellito pintura por la aguja o por el sellito de la aguja	2. Cambio del sellito de la aguja
3. Boquilla o respirodes de la boquilla tapados.	3. Patron de rociado en forma de hoyo	3. Remover la pieza en solvente, despres limpiala con una aguja para los orificios de la boquilla.
4. Gotea la boquilla 180°.	4. Patron de rociado en la aguja o en la sellida de aire.	4. Girar la boquilla 180°.
5. Ponga más pintura.	5. El rocio es irregular o palpita	5. Ponga más pintura en el vaso, boquilla mal apretada, sello de la aguja dañado, boquilla colocada con suciedad o cambie las piezas.

## MANTENIMIENTO Y ALMACENAJE

## MAINTENANCE AND STORAGE

### Cleaning and taking care of the gun

- Clean the gun and cup: put a little solvent in the cup and activate the trigger. Do it several times
- Clean the nozzle with a brush. **Never immerse the gun in solvent.** The holes should never be cleaned with hard objects because the slightest damage may adversely affect the spray pattern.
- Gaskets should be lightly lubricated after cleaning gun.

### TROUBLESHOOTING TABLE

TROUBLE	CAUSE	SOLUTION
1. The paint dripping by the gun nozzle	1. Objects or foreign substances between the nozzle and the needle that prevent seal.	1. Clean the nozzle and the needle in solvent or use a new nozzle.
2. Paint leaves by the needle or by the seal of the needle	2. The resilient seal of the damaged needle.	2. Change the seal of the needle.
3. The paint spray the form of sickle	3. Nozzle or vents are stuck.	3. Soak the piece in solvent, then wipe with a needle the nozzle orifices.
4. The paint spray as a drop or oval shape	4. Dirt in the needle or in the air outlet.	4. Turn the nozzle 180°. If the skipper spray doesn't change clean the nozzle and the air outlet.
5. The dew is irregular or beats	5. Very little paint on the cup, nozzle bad tight, the needle seal damaged nozzle placed with dirt or damaged.	5. Put more paint. Tighten the pieces correctly. If it's necessary clean or change the pieces.

SELLA DEL CASA VENDEDORA

NUM. DE FACTURA:

NUM. DE SERIE:

PRODUCTO:

MODELO:

FAVOR DE LLENAR LOS ESPACIOS CON LA INFORMACION REQUERIDA.

SEÑOR DISTRIBUIDOR:

Especificadas en el instructivo.

3. Cuando el producto ha sido utilizado en condiciones diferentes a las

2. Cuando la falla sea provocada por la reparacion de personal no autorizado

1. Cuando la falla o averia se deba a la omision de las instrucciones

**Esta garantia se anula en los siguientes casos:**

los mismos presentes defectos de fabricacion y/o mano de obra.

bands y otros que por el uso se agoten o se gaste. Lo anterior, salvo el caso que instalado como unidades de mantenimiento, derivaciones, reductores, llaves de paso etc. Esta garantia no incluye accesorios tales como empalados, o rings, juntas, instaldos de fabrica y no incluirá en ningun caso equipo adicional que se haya exclusivamente aquellas partes, equipos o subassemblies que hayan sido excluidas de la garantia.

En la medida permitida por la ley aplicable esta garantia limitada cubre exclusivamente aquellas partes, equipos o subassemblies que hayan sido excluidas de la garantia.

**LIMITACIONES:**

Para hacer efectiva esta garantia se debera acudir exclusivamente a una tienda de Centros de Servicio Autorizados y no se exigiran mayores requisitos que la presentacion de la presente poliza de garantia donde se mencione claramente el modelo, numero de serie, fecha de compra, en cuyo documento conste el sellado del establecimiento que vendio el producto con los datos que en la misma aparecen, comprobante de compra, llevando junto con el producto cuya garantia se exigie, ante cualquier centro de servicio, segun lo indican la presente poliza de garantia.

En la medida permitida por la ley aplicable esta garantia limitada cubre exclusivamente aquellas partes, equipos o subassemblies que hayan sido excluidas de la garantia.

**CONDICIONES:**

Esta garantia no cubre casos en uso comercial del producto, o casos en uso de arrendamiento del producto (uso personal por parte de un cliente): 1 año de garantia en partes.

El periodo de garantia comienza a contar a partir de la fecha con que fue facturada al usuario final.

**POLIZA DE GARANTIA****GARANTIA**

San Diego, California 92154  
8560 Siempre Viva Road Unit 3A  
California Air Tools Inc.

This warranty is limited to the SPRAYIT distributed by California Air Tools Inc.

**WARRANTY**

This warranty is limited to the SPRAYIT distributed by California Air Tools Inc.  
8560 Siempre Viva Road Unit 3A  
San Diego, California 92154

**WARRANTY POLICY**

The limited warranty period begins on the date of retail purchase by the original purchaser.

**Limited Warranty**

California Air Tools Inc. Will repair or replace, free of charge, to the original retail customer who purchased SPRAYIT from an authorized dealer distributor or distributor's dealer. This warranty does not transfer to subsequent owners.

California Air Tools Inc. will repair or replace, at its option, any parts that are proven by an authorized service center to be defective in material or workmanship under normal use during the applicable warranty time period as stated below. This limited warranty covers the cost of the replacement parts and labor for all defects when installed by authorized service center. Transportation charges are the responsibility of the customer. Any part replaced under warranty becomes the property of California Air Tools Inc.

All parts replaced under warranty will be considered as part of original product, and any warranty on those parts will expire coincident with the original product warranty.

**Limited Warranty Period**

Non-commercial / Non-rental (personal use by a retail customer): 1 year parts

**Disclaimers and Limitations of Remedies**

This warranty gives you specific legal rights, and you may also have other rights which may vary from State to State.

**Disclaimer of other Warranties**

To the fullest extent permitted by applicable law, this limited warranty is exclusive and expressly in lieu of any and all other warranties, including, without limitation, any implied warranties of merchantability or fitness for a particular purpose or any other implied warranties that may arise from the course of dealing or usage of the trade. California Air Tools Inc. hereby disclaims and excludes all other warranties.

To the extent that California Air Tools Inc. products are consumer products under applicable federal and state law with respect to any customer, the duration of any implied warranties (including, but not limited to implied warranties of merchantability or fitness for a particular purpose) are limited to the shortest duration permitted by applicable law or the Limited Warranty period provided herein, whichever is longer.

**Limitations of Remedies**

California Air Tools Inc. shall not be liable to customer, or anyone claiming under customer, for any other obligations or liabilities, including, but not limited to, obligations or liabilities arising out of breach of contract or warranty, negligence or other tort or any theory of strict liability, with respect to the spray gun or California Air Tools Inc. acts or omissions or otherwise. To the fullest extent permitted by applicable law California Air Tools Inc. shall not in any event be liable for incidental, compensatory, punitive, consequential, indirect, special or other damages, including but not limited to loss of use, loss of income, loss of time, loss of sales, injury to personal property, or liability customer incurs with respect to any other person, or any other type or form of consequential damage or economic loss.

**DISTRIBUTOR:**

PLEASE FILL THE LINES WITH THE REQUIRED INFORMATION:

PRODUCT: \_\_\_\_\_

MODEL: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

INVOICE NUMBER: \_\_\_\_\_

STAMP OF THE SALE ESTABLISHMENT:

7  
WARRANTY